

PATENT NUMBER
5971514



5971514

U.S. UTILITY PATENT APPLICATION

FD O.I.P.E. PATENT DATE
SCANNED OCT 26 1999
G.A.

SECTOR	CLASS	SUBCLASS	ART UNIT	EXAMINER
	312	2131	3624	Mixed Hansen

FILED WITH: ☐ DISK (CRF) ☐ FICHE
(Attached in pocket on right inside flap)

PREPARED AND APPROVED FOR ISSUE

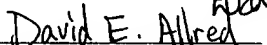

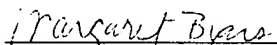
ISSUING CLASSIFICATION												
ORIGINAL				CROSS REFERENCE(S)								
CLASS		SUBCLASS		CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)							
INTERNATIONAL CLASSIFICATION												

☐ Continued on Issue Slip Inside File Jacket

1-5-99

Formal Drawings: 18 sheets set

1-14-99

<input type="checkbox"/> TERMINAL DISCLAIMER	DRAWINGS			CLAIMS ALLOWED	
	Sheets Drwg. <div style="text-align: center;">18</div>	Figs. Drwg. <div style="text-align: center;">20</div>	Print Fig. <div style="text-align: center;">6A</div>	Total Claims <div style="text-align: center;">11</div>	Print Claim for O.G. <div style="text-align: center;">1</div>
<input type="checkbox"/> a) The term of this patent subsequent to _____ (date) has been disclaimed.	<div style="text-align: center;">  David E. Allred (Assistant Examiner) </div>			NOTICE OF ALLOWANCE MAILED <div style="text-align: center;">6-9-99</div>	
<input type="checkbox"/> b) The term of this patent shall not extend beyond the expiration date, of U.S. Patent. No. _____ _____ _____	<div style="text-align: center;">  Peter M. Cuomo Supervisory Patent Examiner Technology Center 3600 _____ (Primary Examiner) </div>			ISSUE FEE <div style="display: flex; justify-content: space-between;"> <div> Amount Due <div style="text-align: center;">\$1240.00</div> </div> <div> Date Paid <div style="text-align: center;">9/11/99</div> </div> </div>	
<input type="checkbox"/> c) The terminal _____ months of this patent have been disclaimed.	<div style="text-align: center;">  Margaret Biers (Legal Instruments Examiner) </div>			ISSUE BATCH NUMBER <div style="text-align: center;">427</div>	

WARNING:

The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368. Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.

Form **PTO-438A**
(Rev. 6/98)

ISSUE FEE IN FILE

(LABEL AREA)

Formal Drawings (____ shts) set _____

(FACE)

PATENT NUMBER

ORIGINAL CLASSIFICATION

CLASS

SUBCLASS

312

319.2

APPLICATION SERIAL NUMBER

09/231,112

CROSS REFERENCE(S)

CLASS

SUBCLASS
(ONE SUBCLASS PER BLOCK)

APPLICANT'S NAME (PLEASE PRINT)

HayaKawa

312

325

49

206

386

16

~~293~~

291

REISSUE, ORIGINAL PATENT NUMBER

INTERNATIONAL CLASSIFICATION

A 47 B

88/00

GROUP
ART UNIT

ASSISTANT EXAMINER (PLEASE STAMP OR PRINT FULL NAME)

3624

PRIMARY EXAMINER (PLEASE STAMP OR PRINT FULL NAME)

David E Alfred

Peter M. Cuomo

1270
V. 5-91)

ISSUE CLASSIFICATION SLIP

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE